

Scientific Drilling's SlimFlow (production logging system) is designed to access wells with restrictions and go where other tools cannot to obtain valuable data for the customer.

This compact and modular system offers the following sensors for memory and real-time data acquisition in a tool-string configuration that does not exceed 1.5" diameter:

- + Casing collar locator (CCL)
- + Gamma ray
- + Pressure
- + Temperature
- + Spinner flowmeter
- + Fluid capacitance
- + Tuning fork density

For more information on Scientific Drilling's range of cased hole services, contact your Scientific Drilling sales representative or visit:

<http://scientificdrilling.com/cased-hole-services>

GENERAL SPECIFICATIONS

MAXIMUM TEMPERATURE**	325°F (163°C)
MAXIMUM PRESSURE	16,000 psi (110,316 kPa)
MEMORY	Non-volatile, 48 MB
TEMPERATURE SENSOR ACCURACY/RESOLUTION	High-accuracy platinum resistance ±1.8°F (1°C) / 0.02°F (0.01°C)
PRESSURE SENSOR ACCURACY/RESOLUTION	High-accuracy quartz ±3.0 psi / 0.01 psi
FULLBORE SPINNER RESOLUTION, TYPE, COLLAPSED OD	Minimum 0.1 rps with direction 4-Arm / 6-Arm 1.5 in
CONTINUOUS SPINNER RESOLUTION & OD RANGE	Minimum 0.1 rps with direction 1.44 - 1.5 in
GAMMA RAY CRYSTAL DETECTOR	Sodium iodide (NaI) scintillation
CASING COLLAR LOCATOR TYPE & MEASUREMENT FREQUENCY	Magnetic flux 50 samples per second
TUNING FORK DENSITY ACCURACY / RESOLUTION, RANGE, CAGE OD	0.003 g/cc / ±0.001 g/cc 0.0 g/cc - 1.2 g/cc 1.5 in
CAPACITANCE RANGE	0 - 100% (Dependent on water hold-up)
HOUSING DIAMETER	1.38 in (35.0 mm)

*Specifications are subject to change without notice **Max. temperature rating dependent on run duration

APPLICATIONS

- + Velocity strings
- + Small nipple profiles
- + Anomalous wellbore restrictions
- + Limited 'free ID' intervals in wellbore

BENEFITS

- + No compromise on data quality
- + Dual spinner deployment
- + Reduced tool-lift forces
- + Reduced disturbance to flow regime

